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## NOTICE OF ALLOWANCE AND FEE(S) DUE

31780 7590 11/16/2009

ERIC ROBINSON  
PMB 955  
21010 SOUTHBANK ST.  
POTOMAC FALLS, VA 20165

EXAMINER

SANEI, HANA ASMAT

ART UNIT

PAPER NUMBER

2889

DATE MAILED: 11/16/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
|-----------------|-------------|----------------------|---------------------|------------------|

10/577,648

05/01/2006

Akio Yamashita

0756-7690

1732

TITLE OF INVENTION: METHOD OF MANUFACTURING DISPLAY DEVICE

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1510        | \$300               | \$0                  | \$1810           | 02/16/2010 |

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
or Fax (571)-273-2885**

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

31780 7590 11/16/2009

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POTOMAC FALLS, VA 20165

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

|                    |
|--------------------|
| (Depositor's name) |
| (Signature)        |
| (Date)             |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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10/577,648 05/01/2006 Akio Yamashita 0756-7690 1732

TITLE OF INVENTION: METHOD OF MANUFACTURING DISPLAY DEVICE

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|-------------|--------------|---------------|---------------------|----------------------|------------------|----------|

nonprovisional NO \$1510 \$300 \$0 \$1810 02/16/2010

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|----------|----------|----------------|
|----------|----------|----------------|

SANEI, HANA ASMAT 2889 445-026000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_
- 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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EXAMINER

SANEI, HANA ASMAT

ART UNIT

PAPER NUMBER

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DATE MAILED: 11/16/2009

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 655 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 655 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

|                               |                        |                     |  |
|-------------------------------|------------------------|---------------------|--|
| <b>Notice of Allowability</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                               | 10/577,648             | YAMASHITA ET AL.    |  |
|                               | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                               | HANA A. SANEI          | 2889                |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to an Amendment filed on 5/20/09.
2. ☒ The allowed claim(s) is/are 1-32.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

***Response to Amendment***

The Amendment, filed on 5/20/09, has been entered and acknowledged by the Examiner.

Claim(s) 1-32 are pending in the instant application.

***Priority***

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

***Response to Arguments***

Applicant's argument(s) filed on 5/20/09 have been fully considered but are moot since Applicant's amendment(s) have overcome the prior art of record.

***Allowable Subject Matter***

A. Claim(s) 1-3, 18 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

The prior art of record (most comprehensive prior art of record to Utsunomiya of U.S. Pat. No. 6814832) teaches a method of manufacturing a display device, comprising: a first step of sequentially forming a first metal film, a first substrate, a first oxide film and an optical filter, attaching a first support medium to a surface of the optical filter with a first peelable adhesive agent such that the first support medium faces the first substrate through the optical filter, and separating the first metal film from the first oxide film by a physical means; a second step of forming a layer including a pixel over a surface of a second substrate, and attaching a third substrate to a surface of the layer including the pixel with a first adhesive material; and a third step of attaching the

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first oxide film to another surface of the second substrate with a second adhesive material after the first and second steps, and removing the first peelable adhesive agent and the first support medium.

However, the prior art of record neither anticipates nor renders obvious to one ordinary skilled in the art the method of manufacturing a display device comprising the various elements as claimed above in combination with the specific limitation of the first metal film being on the first substrate, the first oxide film being on the first metal film, and the optical filter being on the first oxide film as set forth in Claim 1.

Claim(s) 2-3, 18 are allowable because of their dependency status from Claim 1.

B. Claim(s) 4 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

The prior art of record (most comprehensive prior art of record to Utsunomiya of U.S. Pat. No. 6814832) teaches a method of manufacturing a display device, comprising: a first step of sequentially forming a first metal film, a first oxide film, and an optical filter on a first substrate, attaching a second substrate to a surface of the optical filter with a first adhesive material such that the second substrate faces the first substrate through the optical filter, attaching a first support medium to a surface of the second substrate with a first peelable adhesive agent, and separating the first metal film from the first oxide film by a physical means; a second step of forming a layer including a pixel over a surface of a third substrate; and a third step of attaching the first oxide film to another surface of the third substrate with a third adhesive material after the first

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and second steps, and removing the first peelable adhesive agent and the first support medium.

However, the prior art of record neither anticipates nor renders obvious to one ordinary skilled in the art the method of manufacturing a display device comprising the various elements as claimed above in combination with the specific limitation of attaching a fourth substrate to a surface of the layer including the pixel with a second adhesive material as set forth in Claim 4.

C. Claim(s) 5-6, 17 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

The prior art of record (most comprehensive prior art of record to Utsunomiya of U.S. Pat. No. 6814832) teaches a method of manufacturing a display device, comprising: a first step of sequentially forming a first metal film, a first oxide film, and an optical filter on a first substrate, attaching a first support medium to a surface of the optical filter with a first peelable adhesive agent such that the first support medium faces the first substrate through the optical filter, separating the first metal film from the first oxide film by a physical means, and attaching a second substrate to a surface of the first oxide film with a first adhesive material and removing the first peelable adhesive agent and the first support medium so as to form an optical film; a second step of forming a layer including a pixel on a surface of a third substrate; and a third step of attaching the optical filter to another surface of the third substrate with a third adhesive material after the first and second steps.

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However, the prior art of record neither anticipates nor renders obvious to one ordinary skilled in the art the method of manufacturing a display device comprising the various elements as claimed above in combination with the specific limitation of attaching a fourth substrate to a surface of the layer including the pixel with a second adhesive material as set forth in Claim 5.

Claim(s) 6, 17 are allowed because of their dependency status from Claim 5.

D. Claim(s) 7-9 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

The prior art of record (most comprehensive prior art of record to Utsunomiya of U.S. Pat. No. 6814832) teaches a method of manufacturing a display device, comprising: a first step of sequentially forming a first metal film, a first oxide film, and an optical filter on a first substrate, attaching a first support medium to a surface of the optical filter with a first peelable adhesive agent such that the first support medium faces the first substrate through the optical filter, and separating the first metal film from the first oxide film by a physical means.

However, the prior art of record neither anticipates nor renders obvious to one ordinary skilled in the art the method of manufacturing a display device comprising the various elements as claimed above in combination with the specific limitation of a second step of sequentially laminating a second metal film and a second oxide film on a second substrate, forming a layer including a pixel over the second oxide film, and attaching a third substrate to a surface of the layer including the pixel with a first adhesive material; and a third step of separating the second metal film from the second



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oxide film by a physical means after the first and second steps, and attaching the first oxide film to the second oxide film with a second adhesive material s set forth in Claim 7.

Claim(s) 8-9 are allowed because of their dependency status from Claim 7.

E. Claim(s) 10 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

The prior art of record (most comprehensive prior art of record to Utsunomiya of U.S. Pat. No. 6814832) teaches a method of manufacturing a display device, comprising: a first step of sequentially forming a first metal film, a first oxide film, and an optical filter on a first substrate, attaching a second substrate to a surface of the optical filter with a first adhesive material such that the second substrate faces the first substrate through the optical filter, attaching a first support medium to a surface of the second substrate with a first peelable adhesive agent, and separating the first metal film from the first oxide film by a physical means so as to form an optical film; a second step of sequentially laminating a second metal film and a second oxide film on a third substrate, forming a layer including a pixel over the second oxide film; and a third step of separating the second metal film from the second oxide film by a physical means after the first and second steps, attaching the first oxide film to the second oxide film with a third adhesive material, and removing the first peelable adhesive agent and the first support medium.

However, the prior art of record neither anticipates nor renders obvious to one ordinary skilled in the art the method of manufacturing a display device comprising the

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various elements as claimed above in combination with the specific limitation of attaching a fourth substrate to a surface of the layer including the pixel with a second adhesive material as set forth in Claim 10.

F. Claim(s) 11-16, 19-32 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

The prior art of record (most comprehensive prior art of record to Utsunomiya of U.S. Pat. No. 6814832) teaches a method of manufacturing a display device, comprising: a first step of sequentially forming a first metal film, a first oxide film, and an optical filter on a first substrate, attaching a first support medium to a surface of the optical filter with a first peelable adhesive agent such that the first support medium faces the first substrate through the optical filter, separating the first metal film from the first oxide film by a physical means, and attaching a second substrate to a surface of the first oxide film with a first adhesive material and removing the first peelable adhesive agent and the first support medium so as to form an optical film; a second step of sequentially laminating a second metal film and a second oxide film on a third substrate, forming a layer including a pixel over the second oxide film; and a third step of separating the second metal film from the second oxide film by a physical means after the first and second steps, attaching the optical filter to the second oxide film with a third adhesive material.

However, the prior art of record neither anticipates nor renders obvious to one ordinary skilled in the art the method of manufacturing a display device comprising the various elements as claimed above in combination with the specific limitation of

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attaching a fourth substrate to a surface of the layer including the pixel with a second adhesive material as set forth in Claim 11.

Claim(s) 12-16, 19-32 are allowed because of their dependency status from Claim 11.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### ***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hana A. Sanei whose telephone number is (571) 272-8654. The examiner can normally be reached on Monday- Friday, 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minh-Toan Ton can be reached on (571) 272-2303. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*/Hana Sanei/*  
**Hana Asmat Sanei**  
**AU 2889 Patent Examiner**

*/Toan Ton/*  
**Supervisory Patent Examiner, Art Unit 2889**